

Warning [Pages Of US References:]

page 3 has no references
page 4 has no references
page 6 has no references

Warning [Pages Of Foreign References:]

page 1 has no references
page 2 has no references
page 3 has no references
page 4 has no references
page 5 has no references

Warning [Pages Of Other References:]

position 3 on page 3 may be a duplicate because the first 75
characters are the same as position 4 on page 3
may be a duplicate because the first 75 characters are the same as
position 12 on page 3
may be a duplicate because the first 75 characters are the same as
position 13 on page 3
position 4 on page 3 may be a duplicate because the first 75
characters are the same as position 12 on page 3
may be a duplicate because the first 75 characters are the same as
position 13 on page 3
position 5 on page 3 may be a duplicate because the first 75
characters are the same as position 14 on page 3
position 12 on page 3 may be a duplicate because the first 75
characters are the same as position 13 on page 3
position 15 on page 3 may be a duplicate because the first 75
characters are the same as position 1 on page 4
may be a duplicate because the first 75 characters are the same as
position 2 on page 4
position 1 on page 4 may be a duplicate because the first 75
characters are the same as position 2 on page 4
page 1 has no references
page 2 has no references

CHECK LIST

Rule 47 Continuing Data PCT Disclaimer

No Yes No No

Microfiche Appendix CPA tag

No No

Foreign Priority Claimed: No
Acknowledged: No

State Code: CA Country Code:

Text Endorsement: 09663002.091500

JACKET

<u>SERIAL NUMBER</u>	<u>FILING DATE</u>	<u>CLASS</u>	<u>SUBCLASS</u>	<u>GAU</u>
09/663,002	09/15/00	704	230	2655

<u>FOREIGN</u>	<u>PRIORITY</u>	
<u>Country</u>	<u>Document Number</u>	<u>Date</u>

DISCLAIMER

TITLE

System for speech encoding having an adaptive encoding arrangement

MICROFICHE APPENDIX

ASSISTANT EXAMINER:

<u>First:</u>	<u>Middle:</u>	<u>Last:</u>
Michael	N.	Opsasnick

PRIMARY EXAMINER:

<u>First:</u>	<u>Middle:</u>	<u>Last:</u>
Doris	H.	To

CLAIMS ALLOWED

Total Print

57 1

DRAWINGS

Sheets Figures Print

7 7 Y

BLUE SLIP INFORMATION

<u>SERIAL NUMBER</u>	<u>CLASS</u>	<u>SUBCLASS</u>	<u>GAU</u>
09/663,002	704	230	2655

INDEP. CLAIMS

TOTAL CLAIMS

1, 13, 23, 33, 36, 39, 40, 42, 43, 44, 46, 47, 49, 50, 52, 53, 54, 56 57

BLUE SLIP (Page 1)

INTERNATIONAL CLASSIFICATION

Class SubClass

G10L 19/00

CROSS-REFERENCES

Class SubClass

704 223

TERM EXTENSION

728

FIELD OF SEARCH

Class SubClass

704 230; 219; 223; 207

OATH

Pat. No. 05964824 - 6
Issue Date: 06/14/04

Group ID: A
User ID: Smelcher

Page 3

INVENTOR NAME

First: Middle: Last: Signed:

Huan-Yu

Su

Yes

City: San Clemente

State: CA ZIP Code: Country: Foreign ZIP:

INVENTOR NAME

First: Middle: Last: Signed:

Yang

Gao

Yes

City: Mission Viejo

State: CA ZIP Code: Country: Foreign ZIP:

PCT INFO

CONTINUING DATA (Page 1)

<u>LINE</u>	<u>CODE</u>	<u>SERIAL NUMBER</u>	<u>FILING DATE</u>	<u>STATUS</u>	<u>DOCUMENT NO.</u>	<u>ISSUE DATE</u>
104	72	09/154,660	09/18/1998	01	6,330,533	/ /
105	68	60/097,569	08/24/1998			/ /

REFERENCES (Page 1) SERIAL NUMBER: 09/663,002
FORM 892

U.S. REFERENCES

<u>U.S. Pat No.</u>	<u>Date</u>	<u>Patentee</u>	<u>Class</u>	<u>SubClass</u>
*6,233,550	05/2001	Gersho et al.	704	208

No issue date available.

FOREIGN REFERENCES

<u>Foreign Doc No.</u>	<u>Date</u>	<u>Country</u>	<u>Class</u>	<u>SubClass</u>
------------------------	-------------	----------------	--------------	-----------------

OTHER REFERENCE CITATIONS (incl. Author, Title, Date, Pertinent Pages, etc.)

REFERENCES (Page 2) SERIAL NUMBER: 09/663,002
FORM 892

U.S. REFERENCES

<u>U.S. Pat No.</u>	<u>Date</u>	<u>Patentee</u>	<u>Class</u>	<u>SubClass</u>
---------------------	-------------	-----------------	--------------	-----------------

*6,330,533	12/2001	Su et al.	704	220
No issue date available.				

*6,104,992	08/2000	Gao et al.	704	220
No issue date available.				

*6,636,829	10/2003	Benyassine et al.	704	201
No issue date available.				

5,596,676	01/1997	Swaminathan et al.	704	208
-----------	---------	--------------------	-----	-----

*6,260,010	07/2001	Gao et al.	704	230
No issue date available.				

*6,173,257	01/2001	Gao	704	220
No issue date available.				

*6,188,980	02/2001	Thyssen	704	230
No issue date available.				

5,960,389	09/1999	Jarvinen et al.	704	220
-----------	---------	-----------------	-----	-----

5,778,338	07/1998	Jacobs et al.	704	223
-----------	---------	---------------	-----	-----

FOREIGN REFERENCES

<u>Foreign Doc No.</u>	<u>Date</u>	<u>Country</u>	<u>Class</u>	<u>SubClass</u>
------------------------	-------------	----------------	--------------	-----------------

OTHER REFERENCE CITATIONS (incl. Author, Title, Date, Pertinent Pages, etc.)

=====

REFERENCES (Page 3) SERIAL NUMBER: 09/663,002
FORM 1449

U.S. REFERENCES

<u>U.S. Pat No.</u>	<u>Date</u>	<u>Patentee</u>	<u>Class</u>	<u>SubClass</u>
---------------------	-------------	-----------------	--------------	-----------------

FOREIGN REFERENCES

<u>Foreign Doc No.</u>	<u>Date</u>	<u>Country</u>	<u>Class</u>	<u>SubClass</u>
------------------------	-------------	----------------	--------------	-----------------

OTHER REFERENCE CITATIONS (incl. Author, Title, Date, Pertinent Pages, etc.)

Gerhard Schroeder, [37 International Telecommunication Union

Telecommunications Standardization Sector, [38 [0 Jun. 1995, pp. 1-iv,

1-142.

[37 Digital Cellular Telecommunications System; Comfort Noise Aspects
for Enhanced Full Rate (EFR) Speech Traffic Channels (GSM 06.62), [38
[0 May 1996, pp. 1-16.

W.B. Kleijn and K.K. Paliwal (Editors), Speech Coding and Synthesis,
Elsevier Science B.V.; Kroon and W.B. Kleijn (Authors), Chapter 3: [37
Linear-Prediction Based on Analysis-by-Synthesis Coding, [38 [0 1995,
pp. 81-113.

W.B. Kleijn and K.K. Paliwal (Editors), Speech Coding and Synthesis,
Elsevier Science B.V.; A. Das, E. Paskoy and A. Gersho (Authors),
Chapter 7: [37 Multimode and Variable-Rate Coding of Speech, [38 [0
1995, pp. 257-288.

B.S. Atal, V. Cuperman, and A. Gersho (Editors), Speech and Audio
Coding for Wireless and Network Applications, Kluwer Academic
Publishers; T. Taniguchi, Y. Tanaka and Y. Ohta (Authors), Chapter 27:
[37 Structured Stochastic Codebook and Codebook Adaptation for
CELP, [38 [0 1993, pp. 217-224.

W. Bastiaan Kleijn and Peter Kroon, The RCELP Speech-Coding Algorithm,
vol. 5, No. 5, Sept.-Oct. 1994, pp. 39/573-47/581.

C. Laflamme, J-P. Adoul, H.Y. Su, and S. Morissette, On Reducing
Computational Complexity of Codebook Search in CELP Coder Through the
Use of Algebraic Codes, 1990, pp. 177-180.

Chih-Chung Kuo, Fu-rong Jean, and Hsiao-Chuan Wang, Speech
Classification Embedded in Adaptive Codebook Search for Low Bit-Rate
CELP Coding, IEEE Transactions on Speech and Audio Processing, vol. 3,
No. 1, Jan. 1995, pp. 1-5.

Erdal Paksoy, Alan McCree, and Vish Viswanathan, A Variable-Rate
Multimodal Speech Coder with Gain-Matched Analysis-By-Synthesis, 1997,
pp. 751-754.

Gerhard Schroeder, International Telecommunication Union
Telecommunications Standardization Sector, Jun. 1995, pp. i-iv, 1-42.

Digital Cellular Telecommunications System; Comfort Noise Aspects for
Enhanced Full Rate (EFR) Speech Traffic Channels (GSM 06.62), May
1996, pp. 1-16.

W.B. Kleijn and K.K. Paliwal (Editors), Speech Coding and Synthesis,
Elsevier Science B.V.; Kroon and W.B. Kleijn (Authors), Chapter 3,
Linear-Prediction Based on Analysis-by-Synthesis Coding, 1995, pp.
81-113.

W.B. Kleijn and K.K. Paliwal (Editors), Speech Coding and Synthesis,
Elsevier Science B.V.; A. Das, E. Paskoy and A. Gersho (Authors),
Chapter 7, Multimode and Variable-Rate Coding of Speech, 1995, pp.
257-288.

B.S. Atal, V. Cuperman, and A. Gersho (Editors), Speech and Audio
Coding for Wireless and Network Applications, Kluwer Academic

Publishers; T. Taniguchi, Y. Tanaka and Y. Ohta (Authors), Chapter 27,

Structured Stochastic Codebook Adaptation for CELP, 1993, pp. 217-224.

B.S. Atal, V. Cuperman, and A. Gersho (Editors), Advances in Speech

Coding, Kluwer Academic Publishers; I.A. Gerson and M.A. Jasiuk

(Authors), Chapter 7, Vector Sum Excited Linear Prediction (VSELP),

pp. 69-79.

=====

REFERENCES (Page 4) SERIAL NUMBER: 09/663,002
FORM 1449

U.S. REFERENCES

<u>U.S. Pat No.</u>	<u>Date</u>	<u>Patentee</u>	<u>Class</u>	<u>SubClass</u>
---------------------	-------------	-----------------	--------------	-----------------

FOREIGN REFERENCES

<u>Foreign Doc No.</u>	<u>Date</u>	<u>Country</u>	<u>Class</u>	<u>SubClass</u>
------------------------	-------------	----------------	--------------	-----------------

OTHER REFERENCE CITATIONS (incl. Author, Title, Date, Pertinent Pages, etc.)

B.S. Atal, V. Cuperman, and A. Gersho (Editors), Advances in Speech

Coding, Kluwer Academic Publishers; J.P. Campbell, Jr., T.E. Tremain,

and V.C. Welch (Authors), Chapter 12, The DOD 4.8 KBPS Standard

(Proposed Federal Standard 1016), 1999, pp. 121-133.

B.S. Atal, V. Cuperman, and A. Gersho (Editors), Advances in Speech

Coding, Kluwer Academic Publishers; R.A. Salami (Author), Chapter 14,

Binary Pulse Excitation: A Novel Approach to Low Complexity CELP

Coding, 1991, pp. 145-157.

=====

REFERENCES (Page 5) SERIAL NUMBER: 09/663,002
FORM 1449

U.S. REFERENCES

<u>U.S. Pat No.</u>	<u>Date</u>	<u>Patentee</u>	<u>Class</u>	<u>SubClass</u>
---------------------	-------------	-----------------	--------------	-----------------

4,969,192	11/1990 Chen et al.	704	222
5,657,420	08/1997 Jacobs et al.	395	232
5,732,188	03/1998 Moriya	704	219
5,732,389	03/1998 Kroon et al.	704	223
<2,9>5,778,338	07/1998 Jacobs et al.		
6,006,177	12/1999 Funaki	704	220
*6,052,661	04/2000 Yamaura et al.	704	222
No issue date available.			
*6,067,518	05/2000 Morii	704	262
No issue date available.			
*6,073,092	06/2000 Kwon	704	219
No issue date available.			

FOREIGN REFERENCES

<u>Foreign</u>	<u>Doc No.</u>	<u>Date</u>	<u>Country</u>	<u>Class</u>	<u>SubClass</u>
----------------	----------------	-------------	----------------	--------------	-----------------

OTHER REFERENCE CITATIONS (incl. Author, Title, Date, Pertinent Pages, etc.)

Lawrence R. Rabiner and Ronald W. Schafer, Digital Processing Of
Speech Signals, pp. 1-37 and 396-461.

W. Bastiaan Kleijn and Peter Kroon, [37 The RCELP Speech-Coding
Algorithm, [38 [0 vol. 5, No. 5, Sept.-Oct. 1994, pp. 39/573-47/581.

C. Laflamme, J-P. Adoul, H.Y. Su, and S. Morissette, [37 On Reducing
Computational Complexity of Codebook Search in CELP Coder Through the
Use of Algebraic Codes, [38 [0 1990, pp. 177-180.

Chih-Chung Kuo, Fu-Rong Jean, and Hsiao-Chuan Wang, [37 Speech
Classification Embedded in Adaptive Codebook Search for Low Bit-Rate
CELP Coding, [38 [0 IEEE Transactions on Speech and Audio Processing,
vol. 3, No. 1, Jan. 1995, pp. 1-5.

Erdal Paksoy, Alan McCree, and Vish Viswanathan, [37 A Variable-Rate
Multimodal Speech Coder with Gain-Matched Analysis-By-Synthesis, [38 [0
1997, pp. 751-754.

=====

REFERENCES (Page 6) SERIAL NUMBER: 09/663,002
FORM 1449

U.S. REFERENCES

<u>U.S. Pat No.</u>	<u>Date</u>	<u>Patentee</u>	<u>Class</u>	<u>SubClass</u>
---------------------	-------------	-----------------	--------------	-----------------

FOREIGN REFERENCES

<u>Foreign Doc No.</u>	<u>Date</u>	<u>Country</u>	<u>Class</u>	<u>SubClass</u>
------------------------	-------------	----------------	--------------	-----------------

92/22891	12/1992	WOX		
----------	---------	-----	--	--

95/28824	11/1995	WOX		
----------	---------	-----	--	--

OTHER REFERENCE CITATIONS (incl. Author, Title, Date, Pertinent Pages, etc.)

Kazunori Ozawa and Taskashi Araseki, [37 [i Multipulse Excited Speech
Coding Utilizing Pitch Information at Rates Between 9.6 and 4.8
kbits/s[1 [38 , Systems and Computers in Japan, vol. 21 No. 13, 1990.

S. Ghaemmaghami and M. Deriche, [37 [i A New Approach to Efficient
Interpolative Determination of Pitch Contour Using Temporal
Decomposition[1 [38 , IEEE Proceedings of Digital Processing
Application, 1996, pp. 125-130.

Roch Lefebvre and Claude LaFlamme, [37 [i Shaping Coding Noise With
Frequency-Domain Companding[1 [38 , IEEE publication, 1997, pp 61-62.

W. Bastiaan Klejian, Ravi P. Ramachandran and Peter Kroon, [37 [i
Generalized Analysis-By-Synthesis Coding and Its Application to Pitch
Prediction[1 [38 , IEEE, 1992, pp 1-337[13 1-340.

W. Bastiaan Klejian, Ravi P. Ramachandran and Peter Kroon, [37], [1]

Interpolation of the Pitch-Predictor Parameters in

Analysis-by-Synthesis Speech Coders [1] [38], IEEE Transactions on

Speech and Audio Processing, vol. 2, No. 1, Part 1, 1994, pp 42-54.

=====
